TEST REPORT ON CEMENT

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	At Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/09/2020
Submission Date:	15/09/2020

Test Calculation for Culvert and Drain at Kondappa layout

Sl no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON CEMENT

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	7/09/2020
Submission Date:	12/09/2020

Test Calculation for roads at at Kondappa layout

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	7/09/2020
Submission Date:	12/09/2020

Test Calculation for roads at Kondappa layout

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
AE-2 A.E.E	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/09/2020
Submission Date:	15/09/2020

Test Calculation for Culvert and Drain at Kondappa layout

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
AE-2 A.E.E	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	7/09/2020
Submission Date:	12/09/2020

Test Calculation for roads at Kondappa layout

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/09/2020
Submission Date:	15/09/2020

Test Calculation for Culvert and Drain at Kondappa layout

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
A.E.E	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON STEEL

Name of work:	Imrovements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	at Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/09/2020
Submission Date:	15/09/2020

Steel Test Calculation for Culvert and Drain at Kondappa layout

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield	538	500	545	500	535	500

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TEST REPORT ON STEEL

Name of work:	Improvements to roads and drains and other developmental works in singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)
Location:	Kondappa layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	M/s Karthik Enterprises
Reference:	BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	7/09/2020
Submission Date:	12/09/2020

Steel Test Calculation for roads at Kondappa layout

SL NO	Details	For 8mm		For 10mm		For 12mm	
		Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield	538	500	545	500	535	500

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	Stress fy =N/mm²						
4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 5/9/2020

Concrete for culvert and Drains side walls

A.E.E

28 Days Test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	506.3	22.50	22.103
2	5/9/2020	03/10/2020	492.0	21.87	
3	5/9/2020	03/10/2020	493.6	21.94	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 5/9/2020

AE-2
AEE

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	506.3	22.50	22.103
2	5/9/2020	03/10/2020	492.0	21.87	
3	5/9/2020	03/10/2020	493.6	21.94	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 5/9/2020

A.E.E

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	493.6	21.94	23.3
2	5/9/2020	03/10/2020	538.7	23.97	
3	5/9/2020	03/10/2020	539.8	23.99	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 5/9/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	493.6	21.94	23.05
2	5/9/2020	03/10/2020	538.7	23.97	
3	5/9/2020	03/10/2020	523.4	23.26	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting 5/9/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

A.E.E

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	538.7	23.97	23.42
2	5/9/2020	03/10/2020	518.7	23.05	
3	5/9/2020	03/10/2020	523.4	23.26	

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TEST REPORT ON M20 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on :, 28 Days

Date of casting 5/9/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

A.E.E

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	521.4	23.17	23.46
2	5/9/2020	03/10/2020	538.7	23.97	
3	5/9/2020	03/10/2020	523.4	23.26	

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TEST REPORT ON M30 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout .

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

Date of casting 5/9/2020

Concrete for roads

28 Days test Results

A.E.E

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	711.5	31.62	32.34
2	5/9/2020	03/10/2020	726.4	32.28	
3	5/9/2020	03/10/2020	745.3	33.12	

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TEST REPORT ON M30 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on : 28 Days

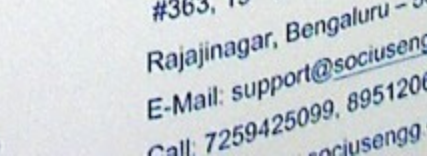
Date of casting : 5/9/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	724.8	32.21	32.53
2	5/9/2020	03/10/2020	726.4	32.28	
3	5/9/2020	03/10/2020	745.3	33.12	

A.E.E



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TEST REPORT ON M30 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on :, 28 Days

Date of casting : 5/9/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
	5/9/2020	03/10/2020	726.4	32.28	32.53
2	5/9/2020	03/10/2020	724.8	32.21	
3	5/9/2020	03/10/2020	745.3	33.12	

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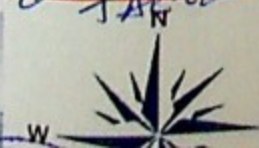

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TEST REPORT ON M30 GRADE CONCRETE

Name of Work: Providing Asphalting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

location : at Kondappa layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:- BBMP/EE/YNK.D/EPMT-12/W.O/10/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-12/AG/03/2020-21

Agency: M/s Karthik Enterprises

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M30

Compressive Strength as on :, 28 Days

Date of casting : 5/9/2020

Concrete for roads

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	5/9/2020	03/10/2020	711.5	31.62	32.31
2	5/9/2020	03/10/2020	724.8	32.21	
3	5/9/2020	03/10/2020	745.3	33.12	

A.E.E

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